

U S WEST, Inc.
Suite 700
1020 Nineteenth Street, NW
Washington, DC 20036
202 429-3134
FAX 202 296-5157

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USWEST

Elridge A. Stafford
Executive Director-
Federal Regulatory

EX PARTE

RECEIVED

July 21, 1998

JUL 21 1998

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

Ms. Magalie Roman Salas, Secretary
Federal Communications Commission
1919 M Street, NW, Room 222, SC-1170
Washington, DC 20554

ORIGINAL

RE: Petition of U S WEST Communications for Relief from Barriers to Deployment of Advanced Telecommunications Services, CC Docket No. 98-26

Dear Ms. Salas:

Please be advised that Kathleen Abernathy, Bob McKenna, Mark Schmidt and the undersigned, on behalf of U S WEST, met today with Carol Matthey, Linda Kinney, Jordan Goldstein, Jonathan Askin, Jason Oxman, Elizabeth Nightingale, and David Ward of the Common Carrier Bureau. The purpose of this meeting was to discuss the above mentioned petition. At this meeting we discussed the need and benefits of the limited forbearance requested in U S WEST's petition. We also discussed unbundled loop and collocation policies of U S WEST, including the provision of SPOT (Single Point of Termination) Frame cageless collocation arrangements. Attached are copies of handouts, charts and maps provided by U S WEST at this meeting.

In accordance with Section 1.1206(a)(2) of the Commission's Rules, the original and one copy of this letter are being filed with your office for inclusion in the public record for the above-mentioned proceedings. Acknowledgment of date of receipt of this transmittal is requested. A duplicate of this letter is provided for this purpose.

Sincerely,



Attachments

cc: Jonathan Askin
Jordan Goldstein
Linda Kinney
Carol Matthey
Elizabeth Nightingale
Jason Oxman
David Ward

No. of Copies rec'd 021
List ABCDE

U S WEST Spectrum Management

FCC Ex Parte Presentation

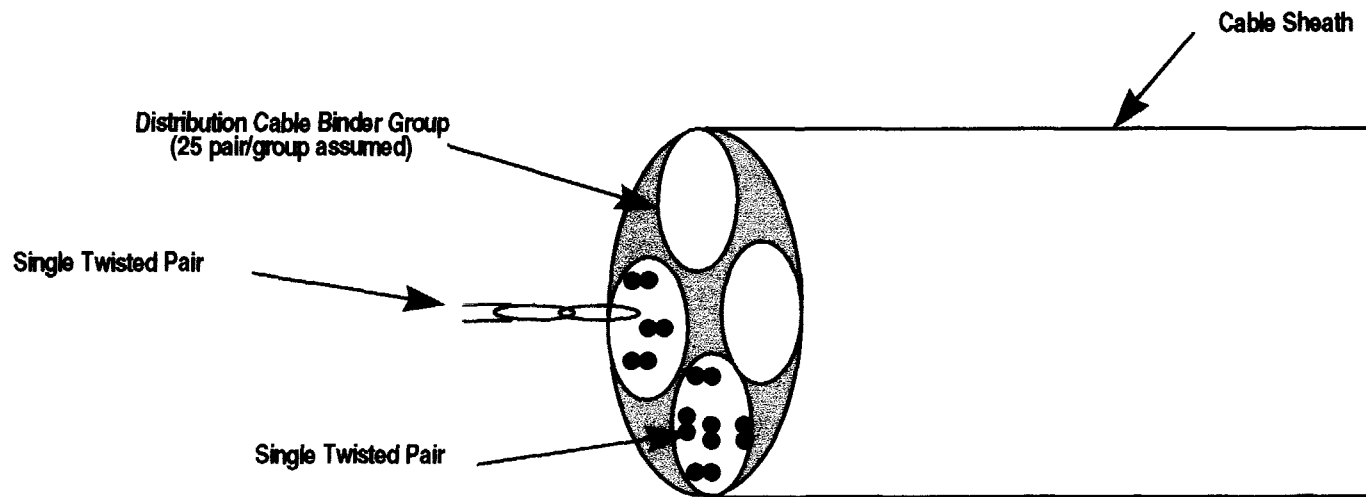
Mark D. Schmidt

U S WEST

July 21-22, 1998

U S WEST Spectrum Management

Exchange Cable Pairs are Segregated Into Binder Groups

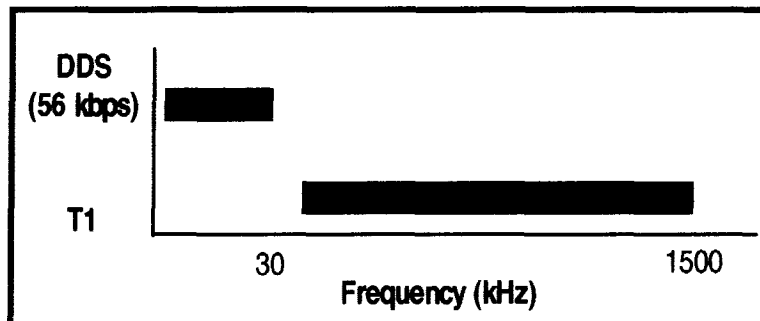


- A binder group refers to a cluster of cable pairs which are twisted together as a single unit
- Binder group size varies with cable application (e.g., feeder groups may be larger than those within distribution cables)
- Ideally, every pair within a group has a unique total frequency and color code
- Twist characteristics and color coding repeat between groups

U S WEST Spectrum Management

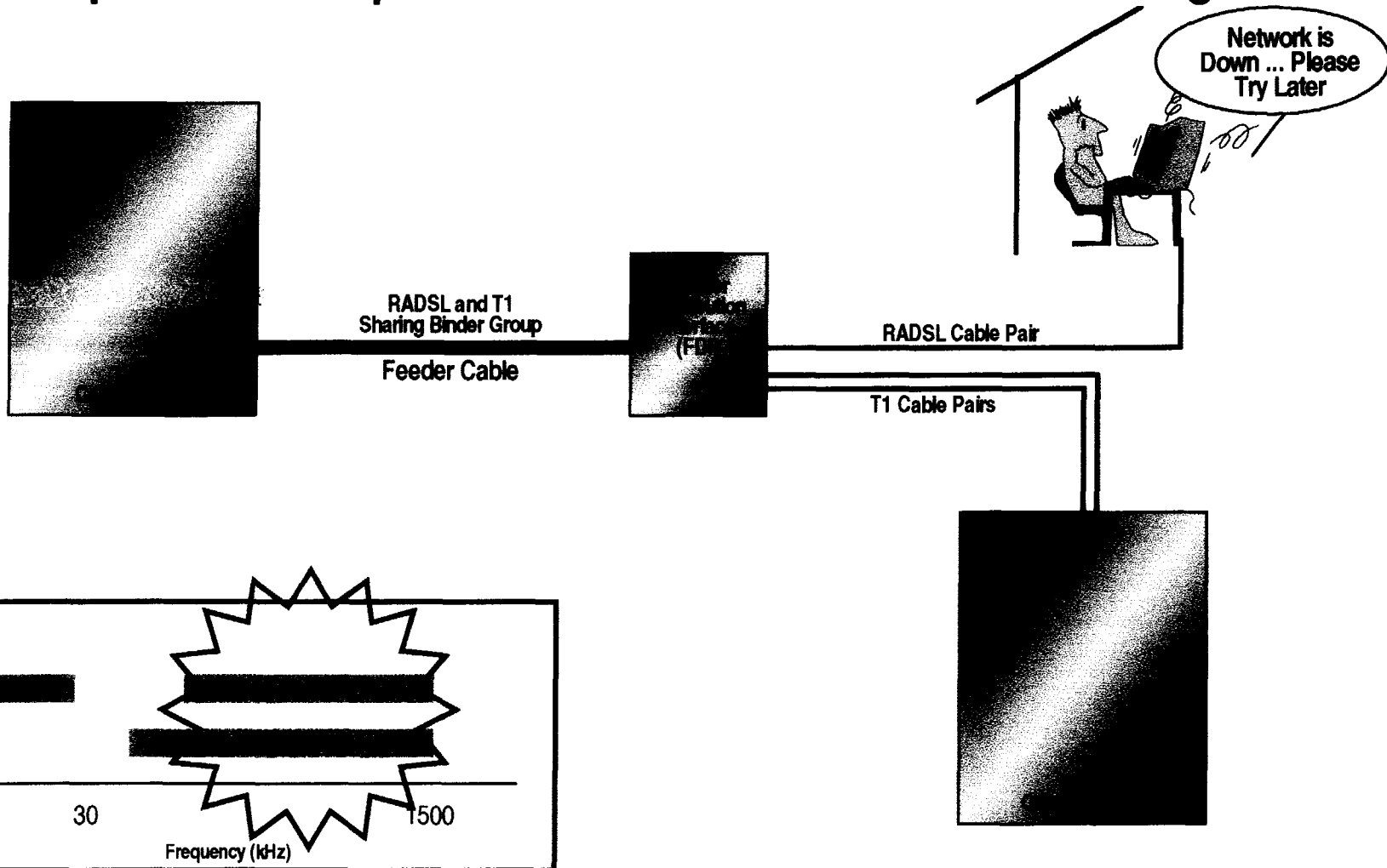
Spectral Compatibility Between Services is Critical

- Systems are "spectrally compatible" if they can coexist within a binder group without experiencing **significant** performance degradation from crosstalk from other systems
- Historically, distinct frequency bands were used to enforce compatibility
 - Non-overlapping spectrum allocations minimizes the threat of interference (crosstalk) from other systems
 - Digital Data Service (DDS) and T1 systems are examples of systems using separate frequency allocations
- Two systems operating within the same cable and using the same frequencies will generate crosstalk into each others pairs
 - The level of crosstalk increases with transmit power, frequency, amount of frequency overlap and physical proximity between pairs (i.e., same versus adjacent binder groups)



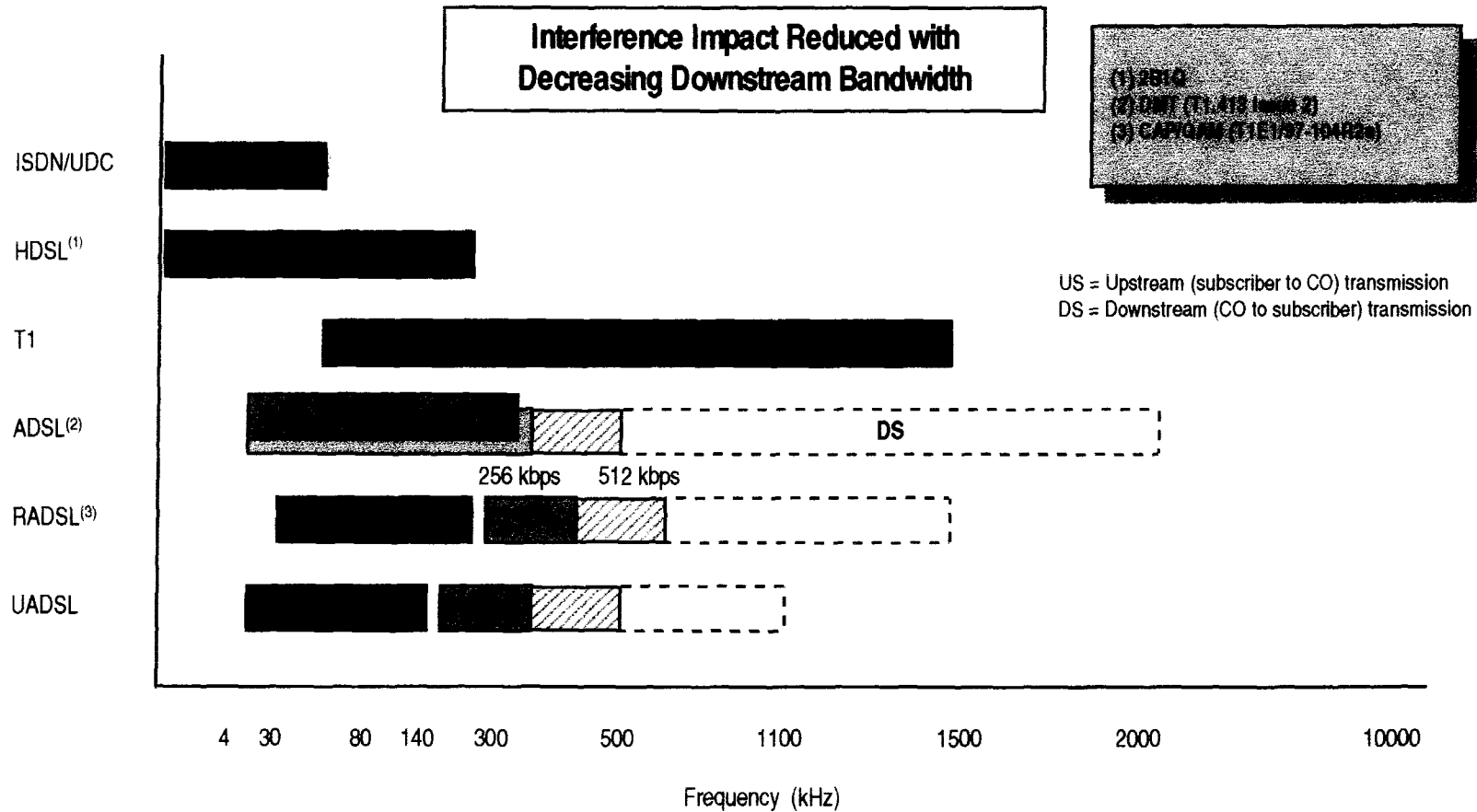
U S WEST Spectrum Management

Spectral Overlap = Interference = Possible Service Outage



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Interference is Ultimately Determined by Mass Market Usage



U S WEST Spectrum Management

U S WEST Plan to Ensure Spectrum Compatibility

- Bellcore has defined Power Spectral Density (PSD) masks for new xDSL systems (ADSL, UADSL, RADSL) to achieve compatibility with each other as well as with existing systems (ISDN, HDSL, UDC)
- PSD criteria will apply to all carriers that plan to use unbundled loops to provide xDSL based services
 - Ensures minimal performance impact to all xDSL systems

U S WEST Spectrum Management

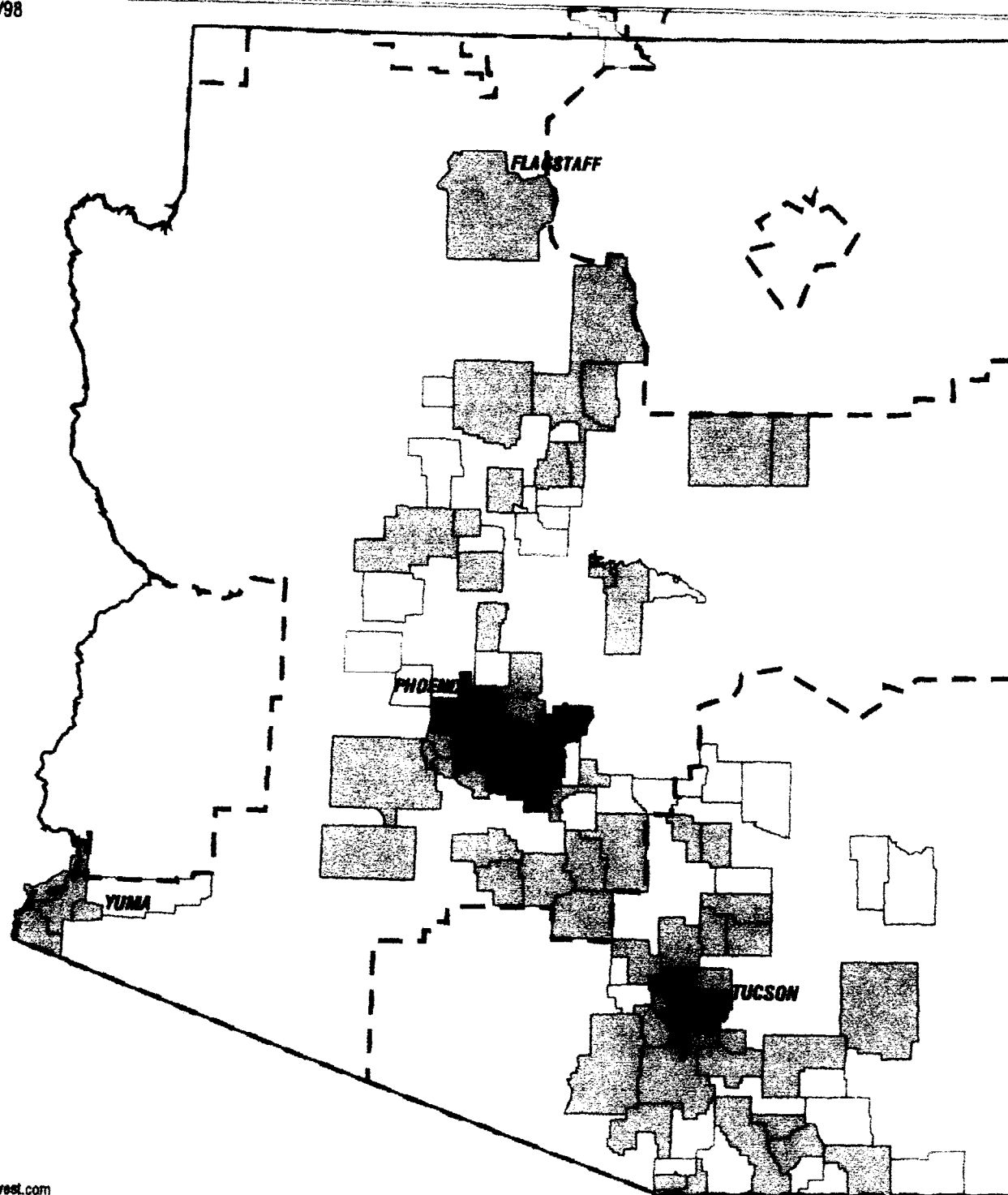
Summary

- Deployment of xDSLs will cause sever crosstalk if not properly managed in the loop plant
- If not properly designed, the crosstalk level can be high enough to interrupt service
- Standard PSD masks are emerging to help manage this issue
- DSL technology installed on loops provided by U S WEST must conform to the PSD masks.

Actions






- U S WEST must apply the requirements of PSD masks on itself and on CLECs using unbundled loops to maintain the service quality of the copper network
- Unbundled loops must be qualified for xDSL (using PSD masks) under new unbundled loop tariffs
- Continue field and lab testing of RADSL crosstalk impacts
- Continue to work through T1E1.4 and UAWG forums to address PSD standards.

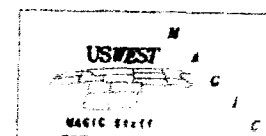
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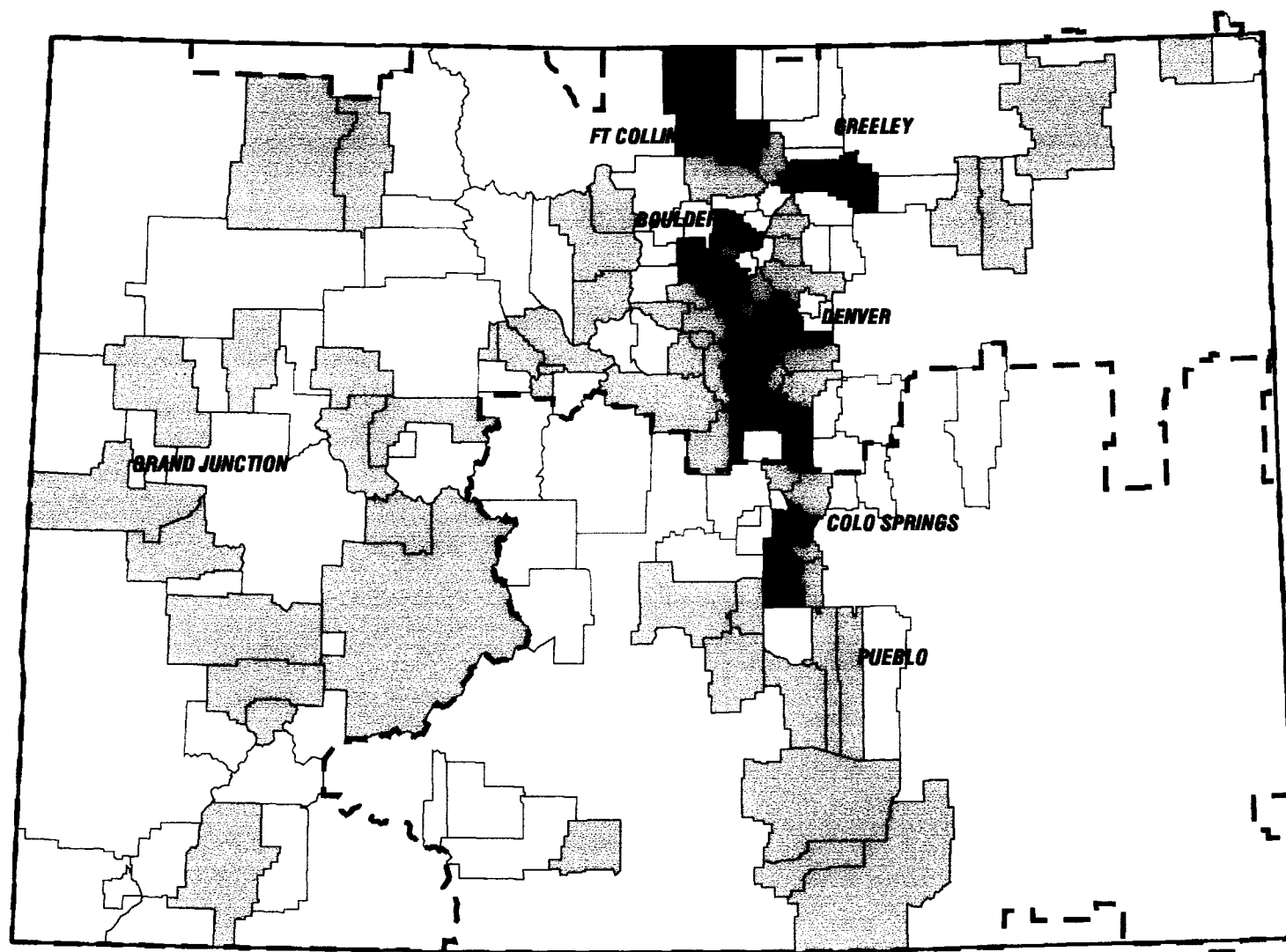
ARIZONA

U S West Megabit Services

-  Original Roll Out
-  Potential Roll Out
-  Wire Center Boundary
-  LATA Boundary
-  State Boundary








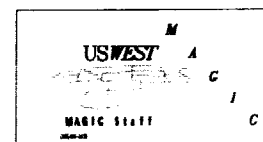
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COLORADO

U S West Megabit Services






-  Original Roll Out
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-  State Boundary

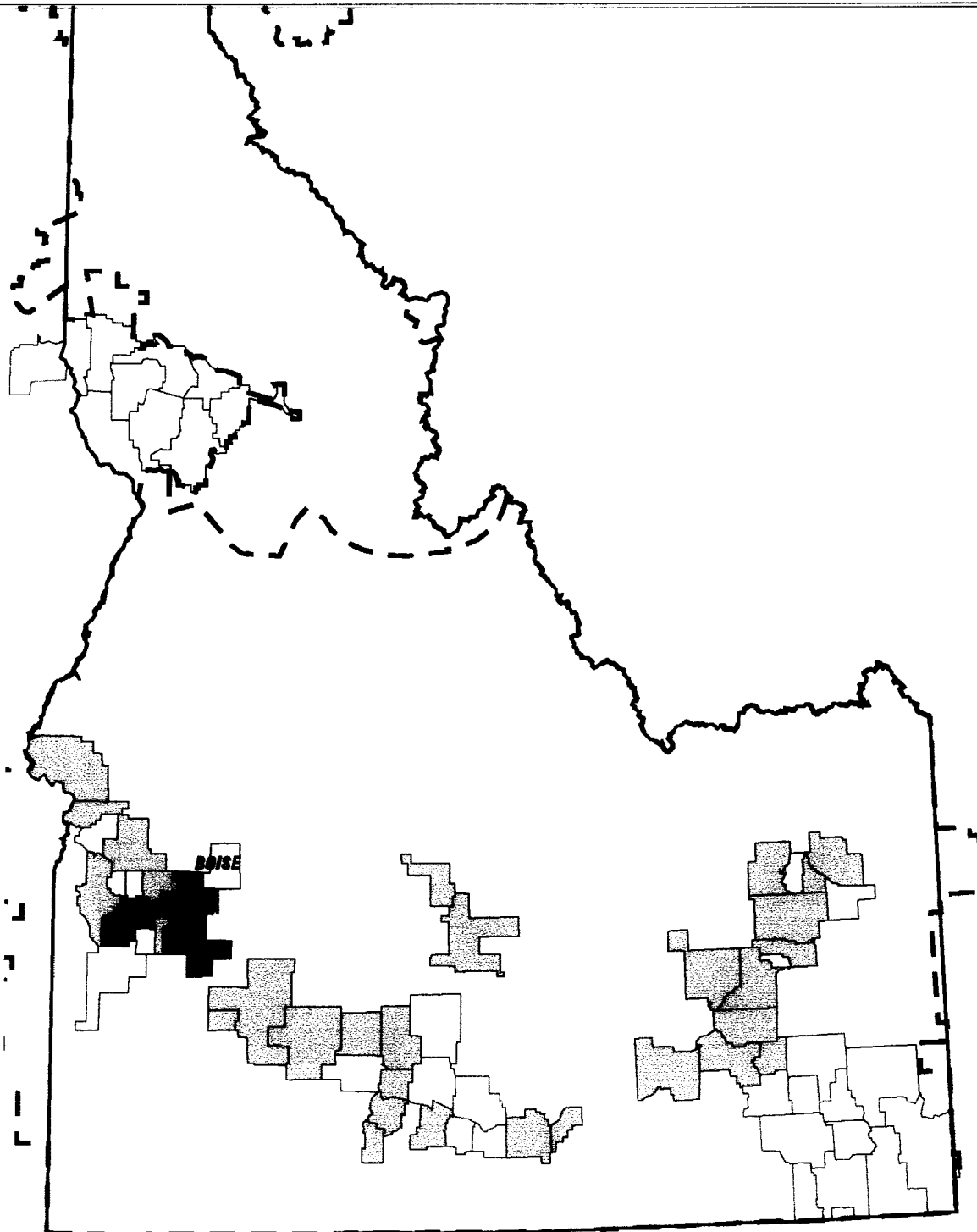


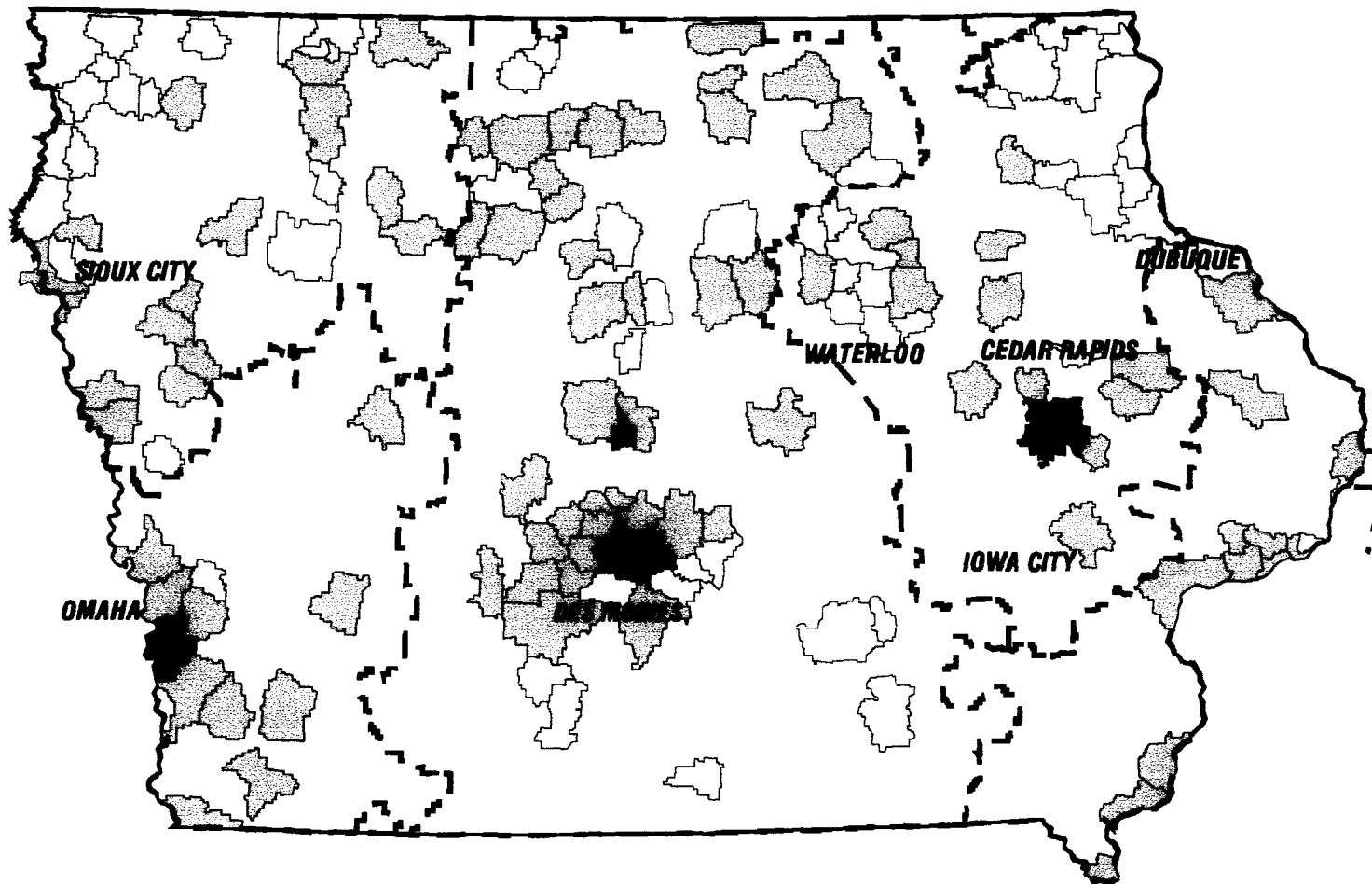
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IDAHO

U S West Megabit Services






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-  State Boundary





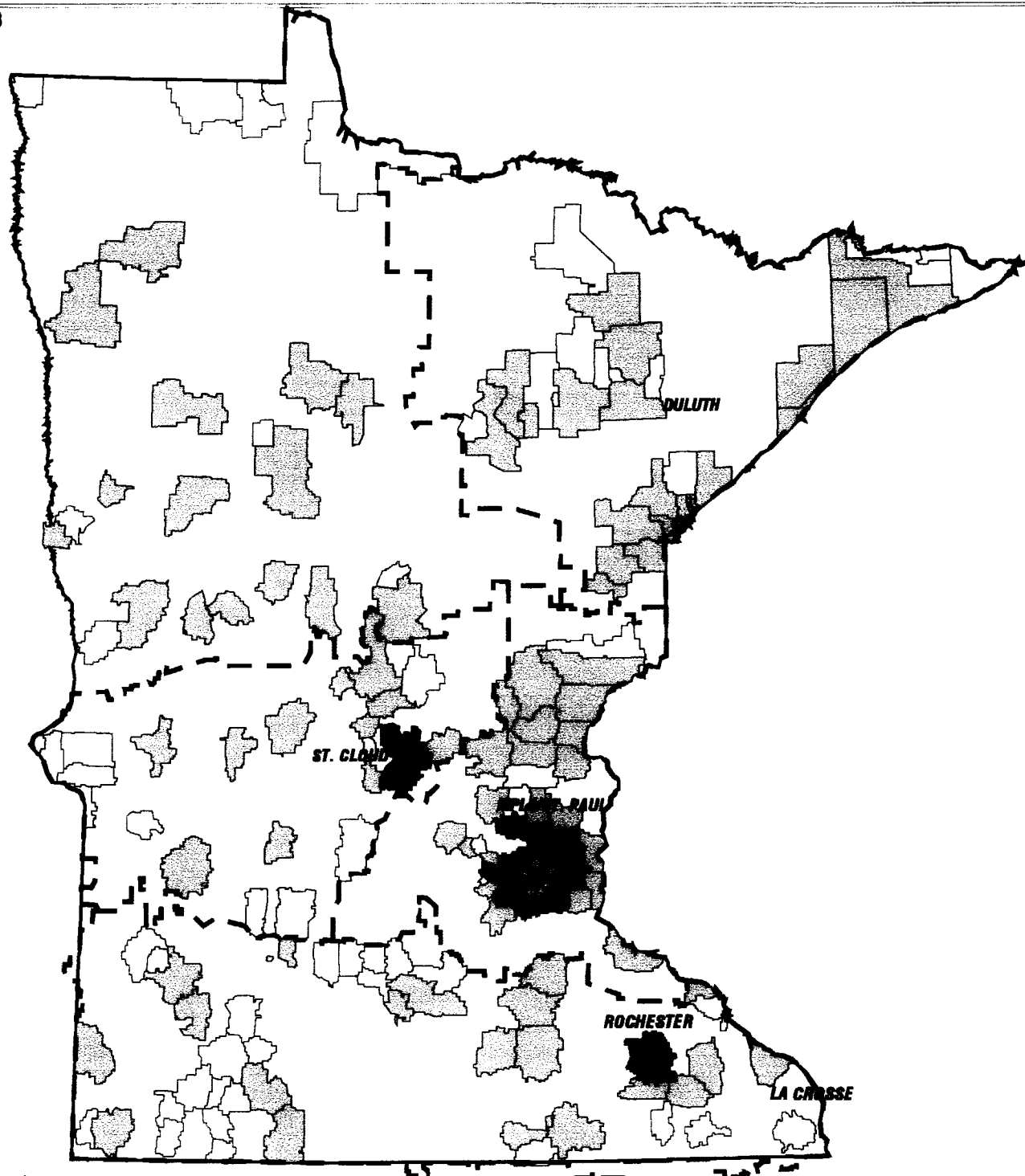
IOWA

U S West Megabit Services

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






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MINNESOTA

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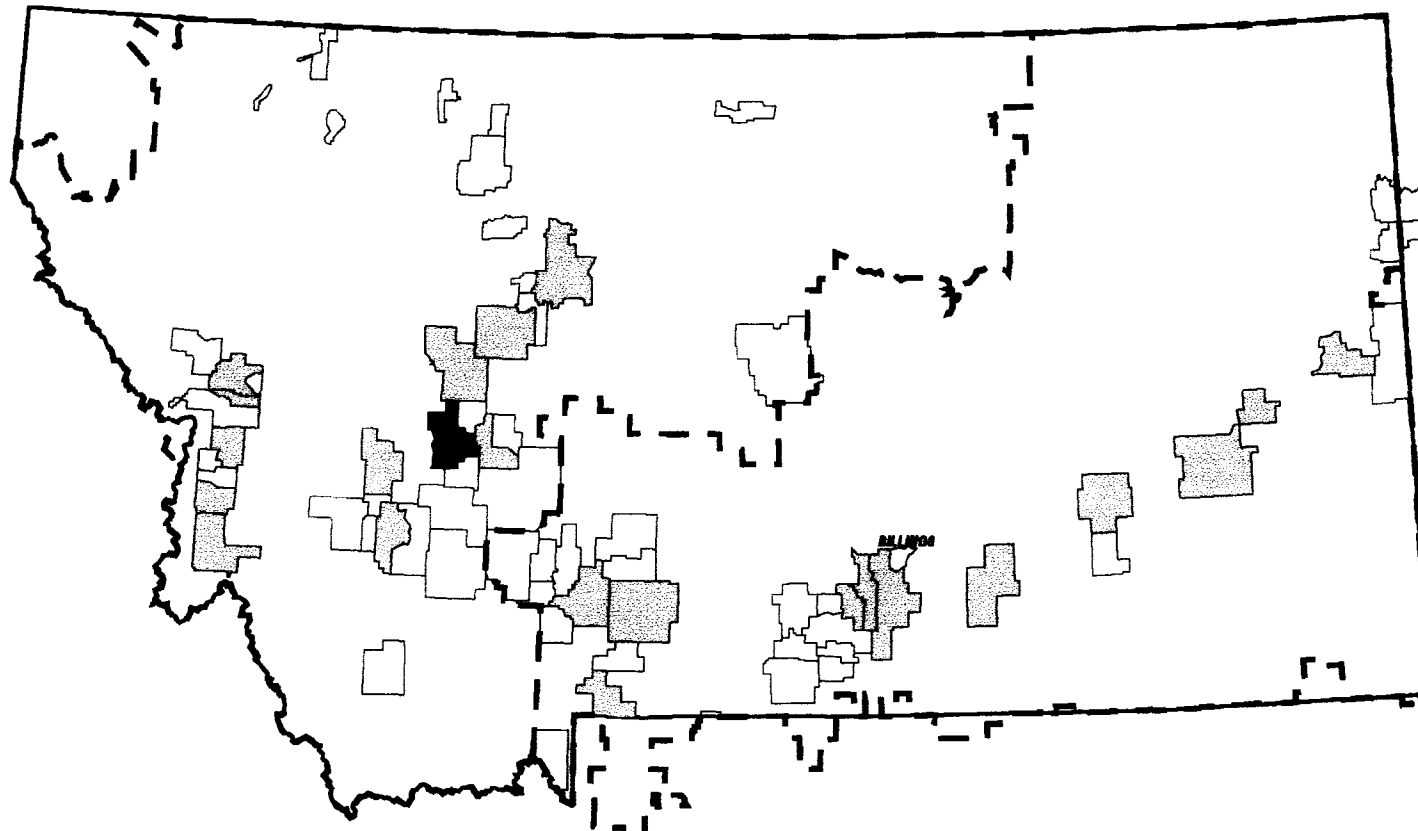
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MONTANA

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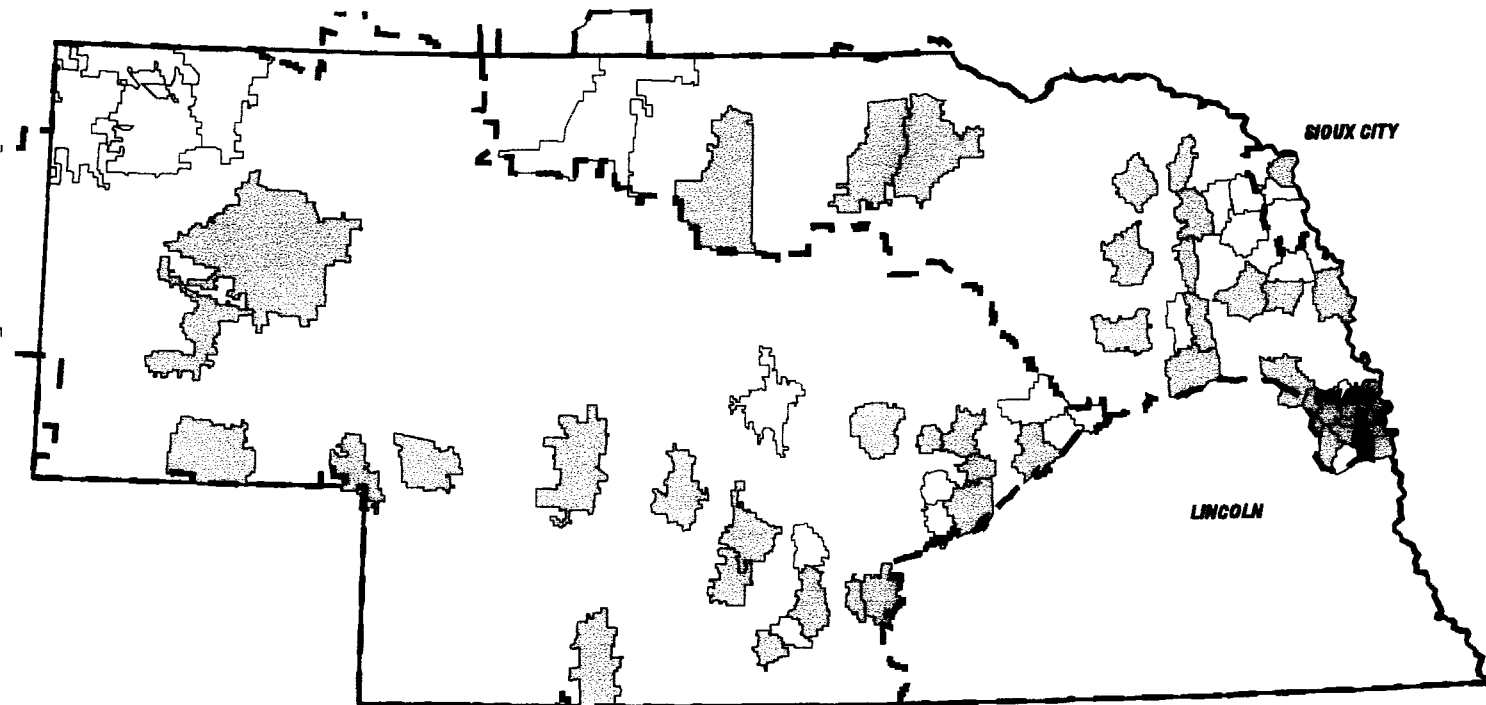
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NEBRASKA

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


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NEW MEXICO

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-  Original Roll Out
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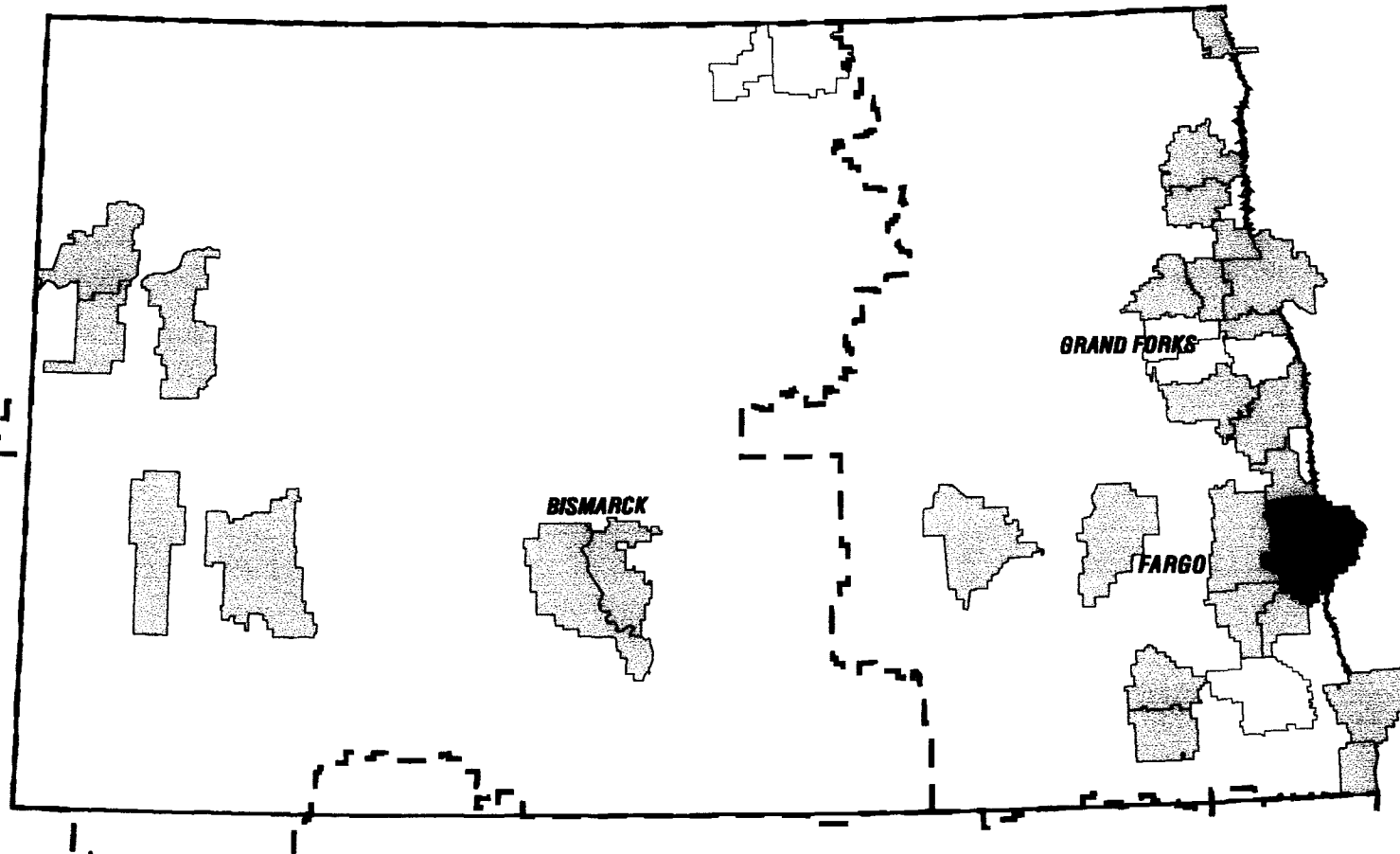


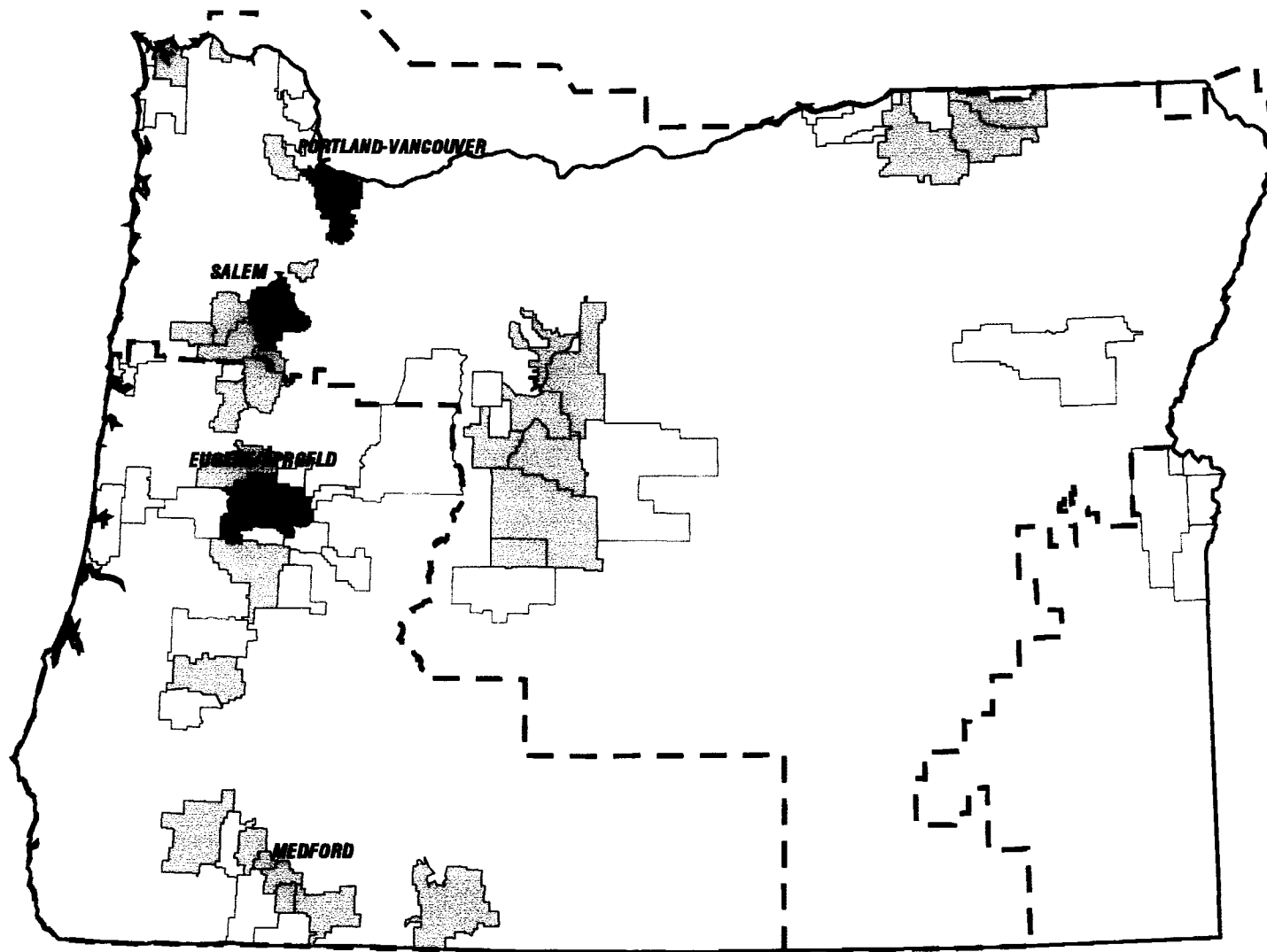
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NORTH DAKOTA

U S West Megabit Services






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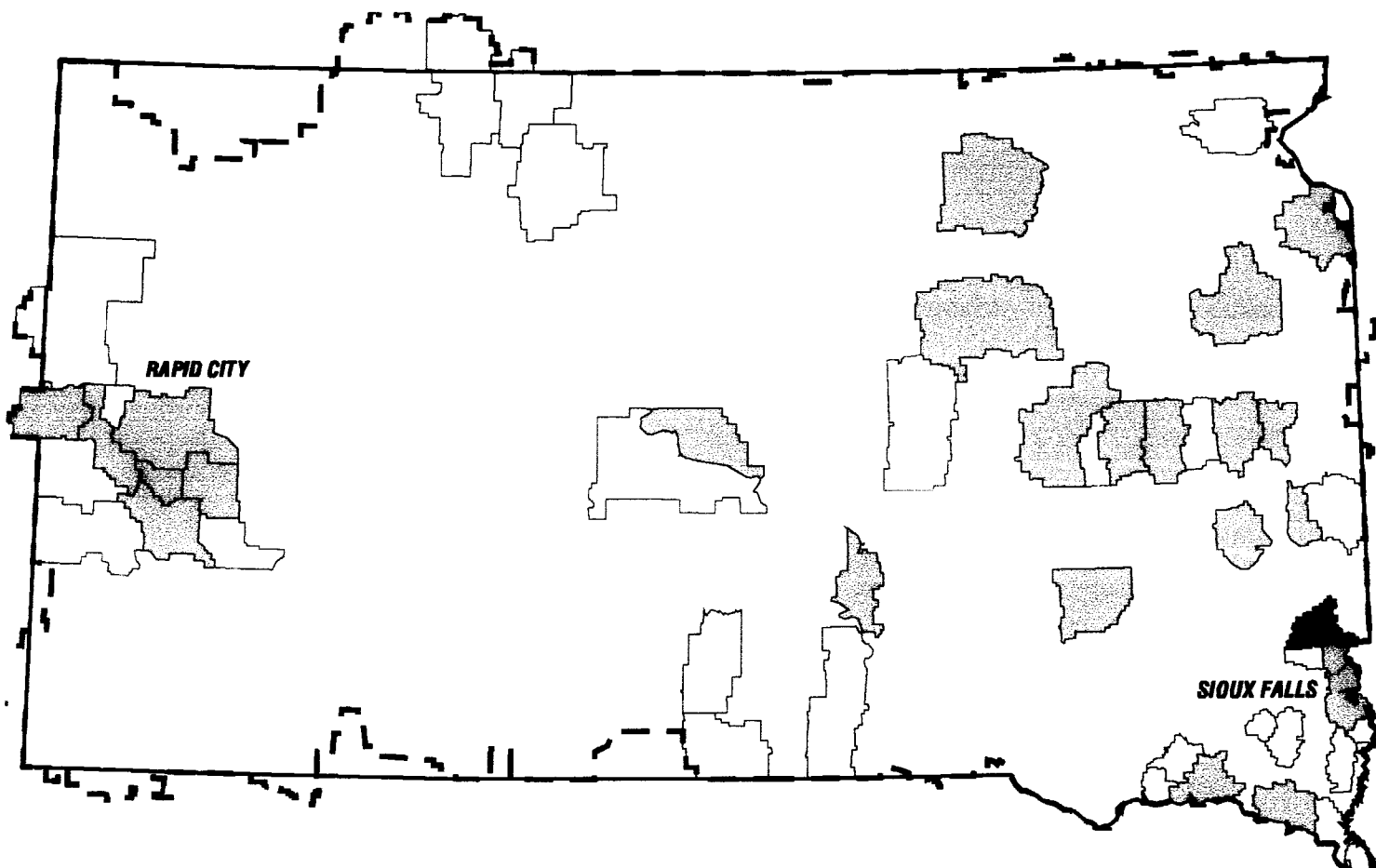
OREGON

U S West Megabit Services

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




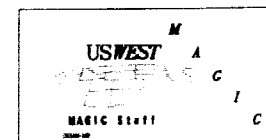
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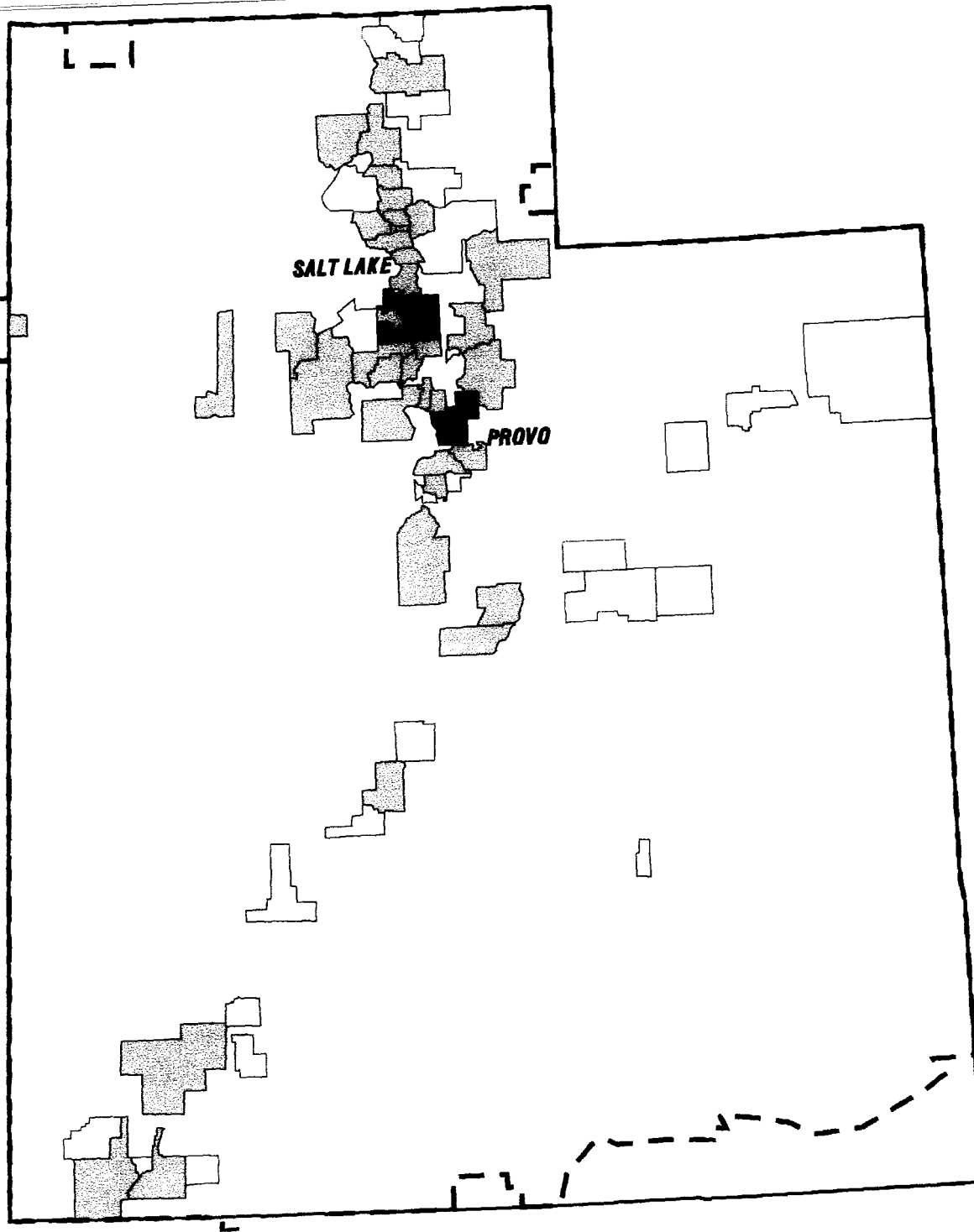
SOUTH DAKOTA

U S West
Megabit Services

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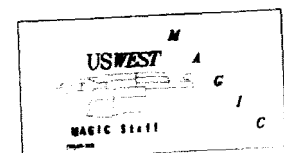
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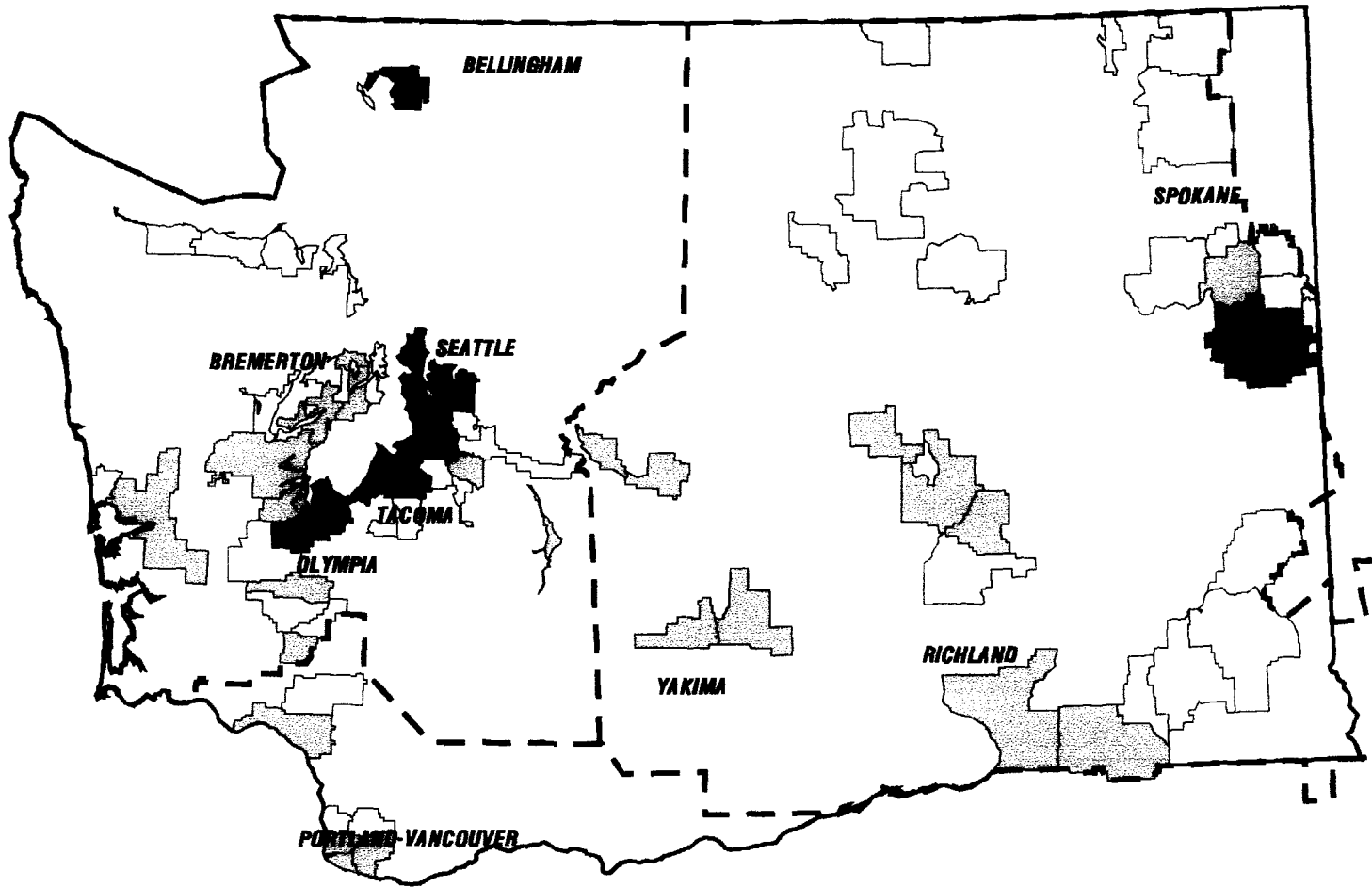
UTAH

U S West Megabit Services

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




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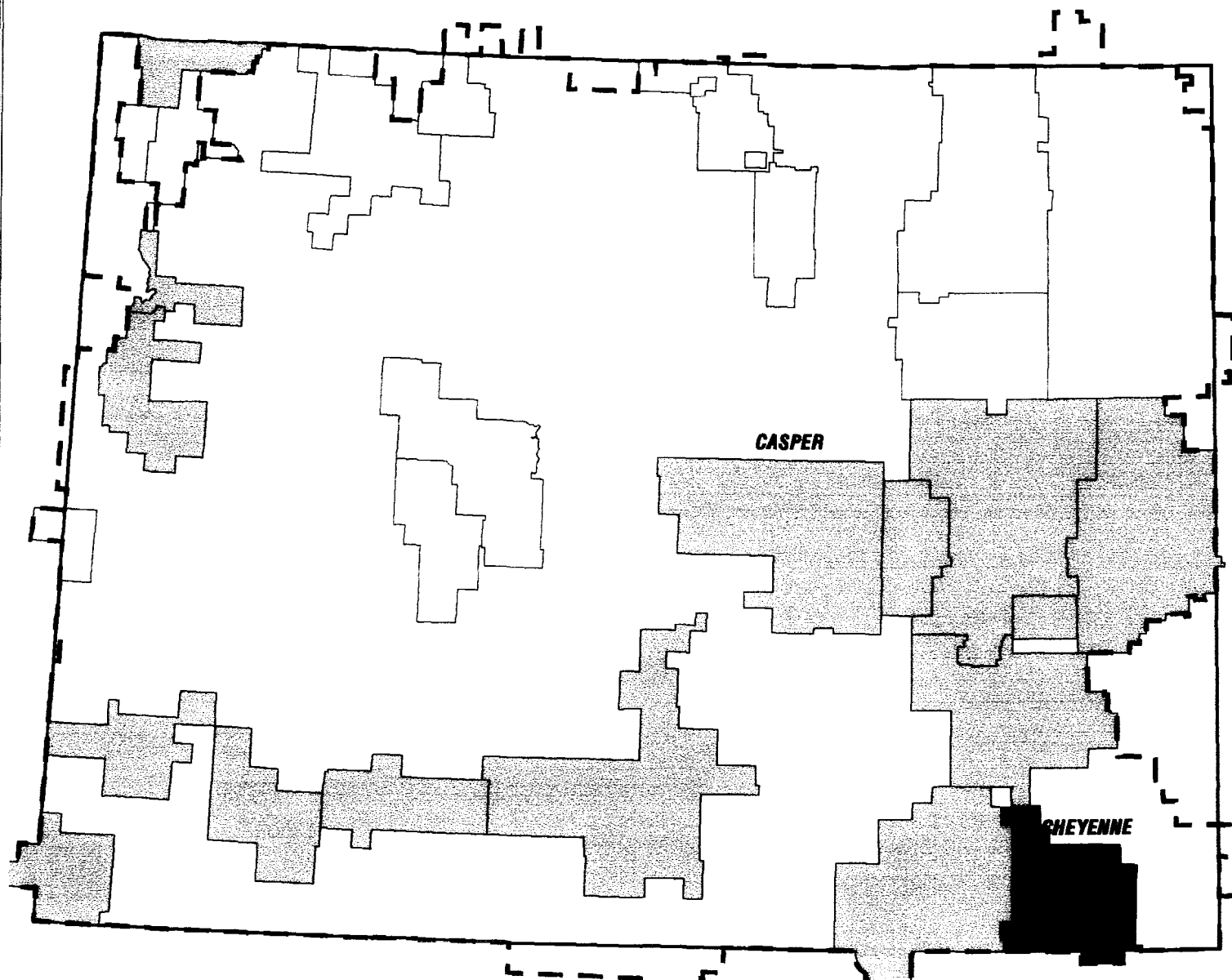
WASHINGTON

U S West Megabit Services

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




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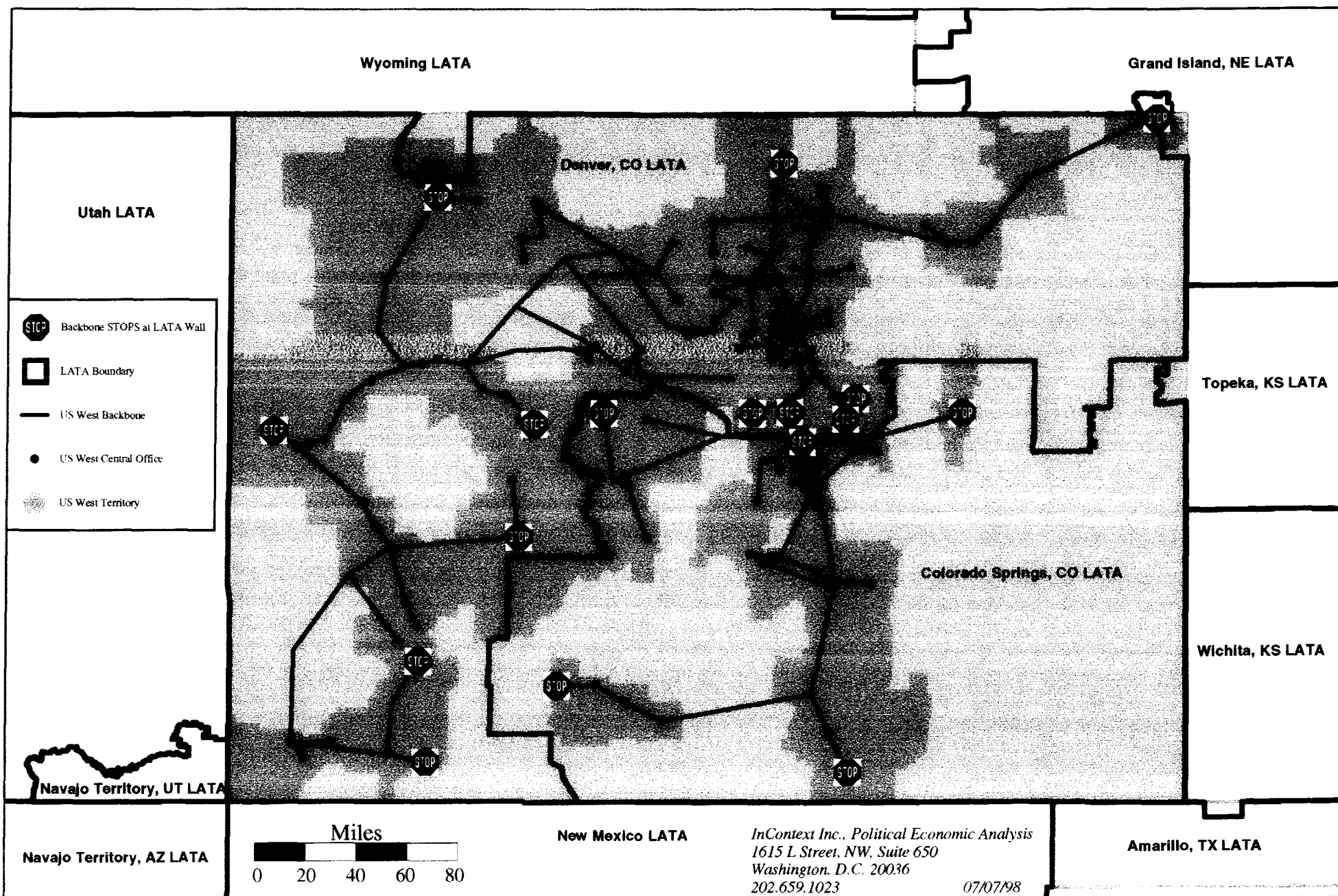
WYOMING

U S West Megabit Services

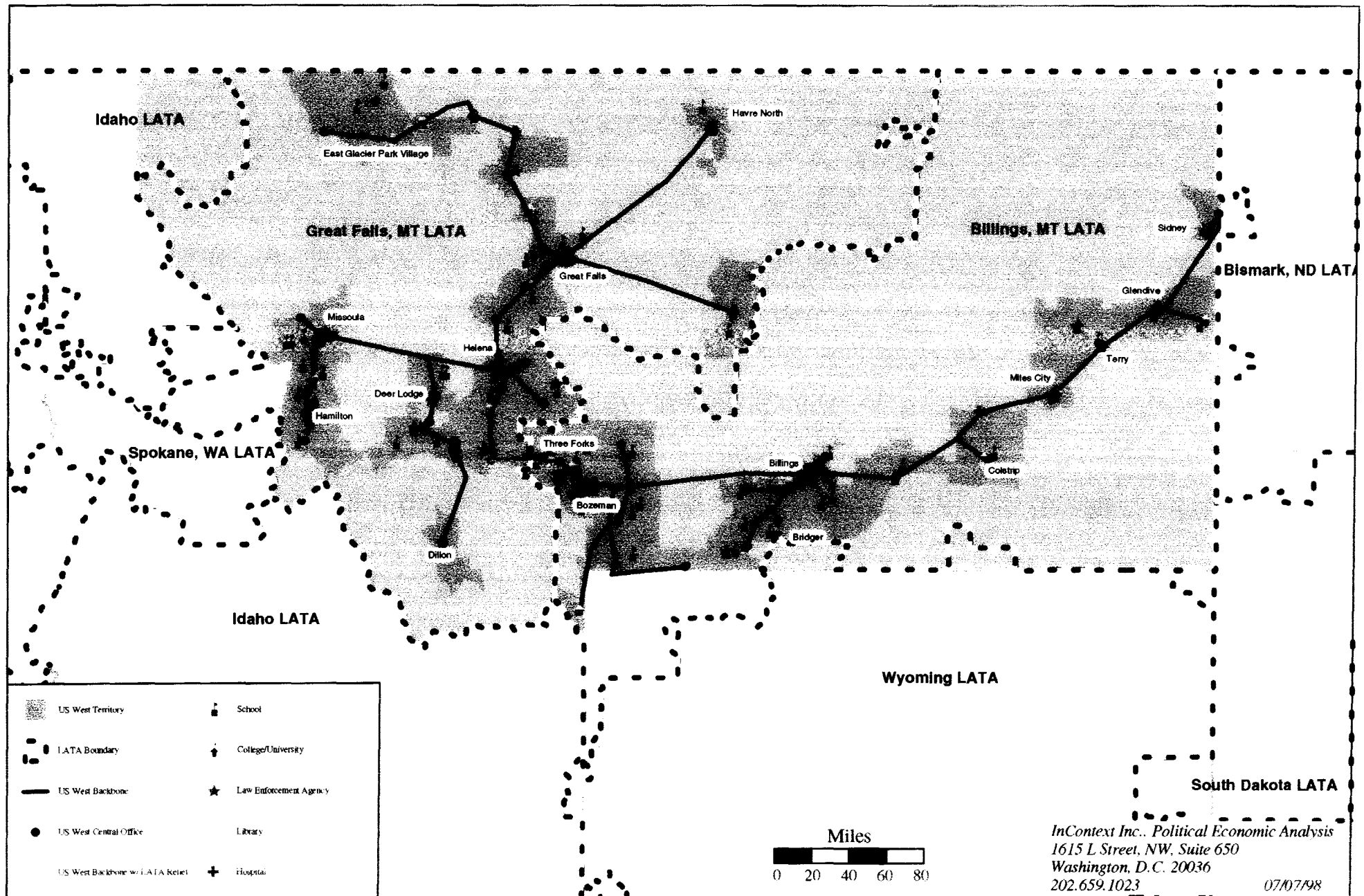
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LATA Lines = Walls Preventing Communication in Colorado



Who Could Get Advanced Telecommunications Services in Montana If LATA Walls Come Down



LATA Lines = Walls Preventing Communication in Montana

